

North Carolina Childhood Blood Lead Surveillance Data

The "**Target Population**" for children ages 1 and 2 is the sum of the number of live births from the previous two calendar years (Source: NC Vital Statistics data, State Center for Health Statistics).

"**Number Tested**" is an unduplicated count of children with blood lead samples collected during the calendar year (Source: NCLEAD, NC Childhood Blood Lead Surveillance System, Children's Environmental Health). "**Percent (%) Tested**" is the number of children tested divided by the target population and multiplied by 100.

Starting July 5, 2012, the CDC lowered its reference value to 5 micrograms per deciliter ($\mu\text{g}/\text{dL}$). Therefore, surveillance tables for 2013 and later include a column for children tested with at least one result $\geq 5 \mu\text{g}/\text{dL}$, in addition to the column for children confirmed at 5-9 $\mu\text{g}/\text{dL}$.

"**% Tested $\geq 5 \mu\text{g}/\text{dL}$** " is the number of children tested with at least one result $\geq 5 \mu\text{g}/\text{dL}$ divided by the total number tested and multiplied by 100.

Starting in 2013, children are counted as being "tested" for lead poisoning until they are confirmed to have a lead level ≥ 5 micrograms per deciliter ($\mu\text{g}/\text{dL}$). After a child has a "**confirmed**" lead level, the child is no longer counted as "**tested**" during subsequent years. Blood lead tests after lead level confirmation are considered "**follow-up**" test results and are not counted in the surveillance tables.

Classification is based on the lower of the two test results. Children are counted only in the column of the highest level in which they were confirmed during the calendar year; therefore, the categories "**Confirmed 5-9 $\mu\text{g}/\text{dL}$** ," "**Confirmed 10-19 $\mu\text{g}/\text{dL}$** ," and "**Confirmed $\geq 20 \mu\text{g}/\text{dL}$** " are mutually exclusive. Children are counted as having "**confirmed**" lead levels when they have two consecutive blood lead test results $\geq 5 \mu\text{g}/\text{dL}$ within a six-month period, up until December 31, 2017. The second test result must be a diagnostic test, preferably a venous sample, sent to an outside reference laboratory for analysis.

The numbers reported for North Carolina Childhood Blood Lead Surveillance Data may vary somewhat from previous reports due to ongoing improvements in data quality and receipt of previously unreported test results from laboratories.

2014 NORTH CAROLINA CHILDHOOD BLOOD LEAD SURVEILLANCE DATA, BY COUNTY

County	Ages 1 and 2 Years Tested for Lead Poisoning					Ages Birth to 6 Years			
	Target Population*	Number Tested**	Percent Tested	Lead ≥ 5	Percent ≥ 5	Number Tested	Confirmed 5-9	Confirmed 10-19	Confirmed ≥ 20
ALAMANCE	3541	2004	56.6	48	2.4	2410	18	1	1
ALEXANDER	744	496	66.7	5	1.0	610	1		
ALLEGHANY	182	139	76.4	5	3.6	182	1		1
ANSON	506	220	43.5	5	2.3	311	1		
ASHE	501	323	64.5	2	0.6	371			
AVERY	295	247	83.7			262			
BEAUFORT	996	689	69.2	15	2.2	731	3	3	1
BERTIE	365	259	71.0	9	3.5	313	4		
BLADEN	733	461	62.9	12	2.6	500	1		
BRUNSWICK	2038	901	44.2	8	0.9	1081	1		
BUNCOMBE	5272	2949	55.9	52	1.8	3311	10	1	
BURKE	1701	1363	80.1	22	1.6	1464	8		
CABARRUS	4585	2131	46.5	27	1.3	2369	7	2	
CALDWELL	1578	1263	80.0	19	1.5	1380	5	2	
CAMDEN	178	94	52.8	4	4.3	107	1		
CARTERET	1262	861	68.2	16	1.9	904	1		
CASWELL	420	206	49.0	7	3.4	231	1	1	
CATAWBA	3500	2362	67.5	31	1.3	2660	8	2	
CHATHAM	1212	587	48.4	8	1.4	667	3		
CHEROKEE	421	268	63.7	6	2.2	379		1	
CHOWAN	311	189	60.8	12	6.3	215	3		
CLAY	172	136	79.1	1	0.7	155			
CLEVELAND	2147	1405	65.4	24	1.7	1880	7	3	
COLUMBUS	1275	696	54.6	13	1.9	996	2		
CRAVEN	3127	1951	62.4	30	1.5	2245	9	5	2
CUMBERLAND	11225	4169	37.1	81	1.9	4740	10	1	1
CURRITUCK	465	184	39.6	4	2.2	251		1	
DARE	731	321	43.9	8	2.5	352			
DAVIDSON	3391	2275	67.1	48	2.1	2489	10		
DAVIE	777	437	56.2	14	3.2	482	1		
DUPLIN	1493	970	65.0	16	1.6	1121	3		
DURHAM	8513	4013	47.1	39	1.0	4684	10	2	
EDGECOMBE	1308	975	74.5	52	5.3	1093	14	3	
FORSYTH	9146	5966	65.2	100	1.7	6358	27	4	1
FRANKLIN	1346	788	58.5	18	2.3	872	5	1	
GASTON	4961	1930	38.9	24	1.2	2169	3	1	1
GATES	222	103	46.4	2	1.9	128			
GRAHAM	186	129	69.4	1	0.8	152			
GRANVILLE	1087	565	52.0	8	1.4	621	3		
GREENE	423	241	57.0	10	4.1	317			1
GUILFORD	12333	8813	71.5	148	1.7	9652	31	6	2
HALIFAX	1144	1000	87.4	45	4.5	1084	9	1	1
HARNETT	3627	1851	51.0	32	1.7	2238	12	2	
HAYWOOD	1096	710	64.8	10	1.4	783	2	1	
HENDERSON	2097	1037	49.5	16	1.5	1307	2	2	
HERTFORD	473	353	74.6	9	2.5	404	2	1	
HOKE	1831	818	44.7	12	1.5	917	4		
HYDE	107	63	58.9	2	3.2	73			
IREDELL	3479	1795	51.6	40	2.2	2032	2	2	
JACKSON	730	459	62.9	12	2.6	516	2	1	
JOHNSTON	4382	1840	42.0	19	1.0	2081	5	2	

*Target Population is based on the number of live births in 2012 and 2013

**90 children tested were unable to be assigned to a county due to missing address information.

Prepared by Children's Environmental Health

Last updated 04/09/2020

2014 NORTH CAROLINA CHILDHOOD BLOOD LEAD SURVEILLANCE DATA, BY COUNTY

County	Ages 1 and 2 Years Tested for Lead Poisoning					Ages Birth to 6 Years			
	Target Population*	Number Tested**	Percent Tested	Lead ≥ 5	Percent ≥ 5	Number Tested	5-9	Confirmed 10-19	≥ 20
JONES	185	125	67.6	4	3.2	150	1		
LEE	1601	976	61.0	22	2.3	1206	3	1	
LENOIR	1311	919	70.1	24	2.6	1262	8	4	
LINCOLN	1496	662	44.3	7	1.1	810	1		
MACON	685	498	72.7	14	2.8	535	2	1	
MADISON	389	210	54.0	5	2.4	254	2	1	
MARTIN	482	287	59.5	3	1.0	413	3		
MCDOWELL	911	560	61.5	29	5.2	661	2		
MECKLENBURG	27668	8224	29.7	134	1.6	10394	24	8	
MITCHELL	288	168	58.3	6	3.6	189			
MONTGOMERY	625	474	75.8	14	3.0	589	6	2	
MOORE	1951	1054	54.0	20	1.9	1193	6		
NASH	2220	1726	77.7	64	3.7	1975	13	3	
NEW HANOVER	4473	2949	65.9	31	1.1	3237	6	5	1
NORTHAMPTON	386	309	80.1	15	4.9	344	4		
ONslow	8736	3319	38.0	20	0.6	3989	1		
ORANGE	2478	1112	44.9	14	1.3	1263	3	1	1
PAMLICO	177	143	80.8			173			
PASQUOTANK	962	559	58.1	21	3.8	619	4	1	2
PENDER	1167	746	63.9	10	1.3	870	3		
PERQUIMANS	268	197	73.5	4	2.0	218		1	
PERSON	801	210	26.2	6	2.9	273			
PITT	4278	2039	47.7	19	0.9	2397	7	1	
POLK	282	92	32.6	1	1.1	150			
RANDOLPH	3224	2100	65.1	43	2.0	2348	8	1	
RICHMOND	1056	649	61.5	15	2.3	783	2		
ROBESON	3768	2730	72.5	58	2.1	3192	12		
ROCKINGHAM	1905	987	51.8	28	2.8	1159	5		
ROWAN	3101	1632	52.6	50	3.1	1918	9	5	1
RUTHERFORD	1334	425	31.9	10	2.4	726		1	
SAMPSON	1712	1331	77.7	27	2.0	1508	8	1	1
SCOTLAND	902	631	70.0	21	3.3	682	4	1	
STANLY	1267	1087	85.8	46	4.2	1159	13	5	3
STOKES	782	536	68.5	12	2.2	566	3	1	
SURRY	1512	957	63.3	35	3.7	1070	5	2	
SWAIN	400	310	77.5	6	1.9	342			
TRANSYLVANIA	529	162	30.6			211			
TYRRELL	81	51	63.0	1	2.0	61			
UNION	4671	1579	33.8	23	1.5	2008	5	4	3
VANCE	1157	609	52.6	4	0.7	726			
WAKE	24748	10645	43.0	113	1.1	11886	23	5	
WARREN	354	208	58.8	7	3.4	238	3		
WASHINGTON	267	173	64.8	6	3.5	213	2		
WATAUGA	687	559	81.4	8	1.4	628	3		
WAYNE	3496	2150	61.5	12	0.6	2523	6		
WILKES	1342	792	59.0	16	2.0	837	7	1	
WILSON	1856	1427	76.9	25	1.8	1513	7	2	
YADKIN	812	442	54.4	11	2.5	484	4	1	
YANCEY	332	203	61.1	6	3.0	227	2		1
STATE	238,750	123,938	51.9	2,221	1.8	142,822	482	111	25

*Target Population is based on the number of live births in 2012 and 2013

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Last updated 04/09/2020

State totals do not include those results missing county assignments.